

## PARTNERSHIP BETWEEN TWO SUCCESSFUL COMPANIES

At two different locations in Europe, but in the same year, 1969, **AMC Mecanocaucho** and **Getzner** were founded. Both companies were developing supports for isolating airborne and structure noise. Both companies have almost five decades of experience.

Towards the end of the 80s, both companies knew each other and started working together in industrial projects in Spain with a completely new product: **Sylomer®**. Since that time, the technical Departments

of **AMC** and **Getzner** analyze projects together solving extremely complex problems of noise reduction in construction and Industry.

Currently **AMC Mecanocaucho** and **Getzner** are not connected just with a contract, but also they have a friendship as well as a long list of successfully completed projects. With this team the solution to your noise problems are in good hands!

DOWNLOAD CATALOGUE:



Factory 1



Factory 2



sylomer® Factory in Austria



ISO 9001:2014



ISO 14001: 2014



Factory and Headquarters

Technical office



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### VIBRATION ISOLATOR PRO



Let your phone discover **THE MAIN DISTURBING FREQUENCIES** of your application. The integrated accelerometers of your phone are capable of making an FFT measurement where you will be able to see the main frequencies that you need to isolate.



### ACOUSTIC HANGER PRO



Discover the app that helps you **FIND THE CORRECT ACOUSTIC HANGER** for your application. Let your phone provide you a full report of isolation, datasheets and installation video. **SIMPLE, EASY & FREE.**



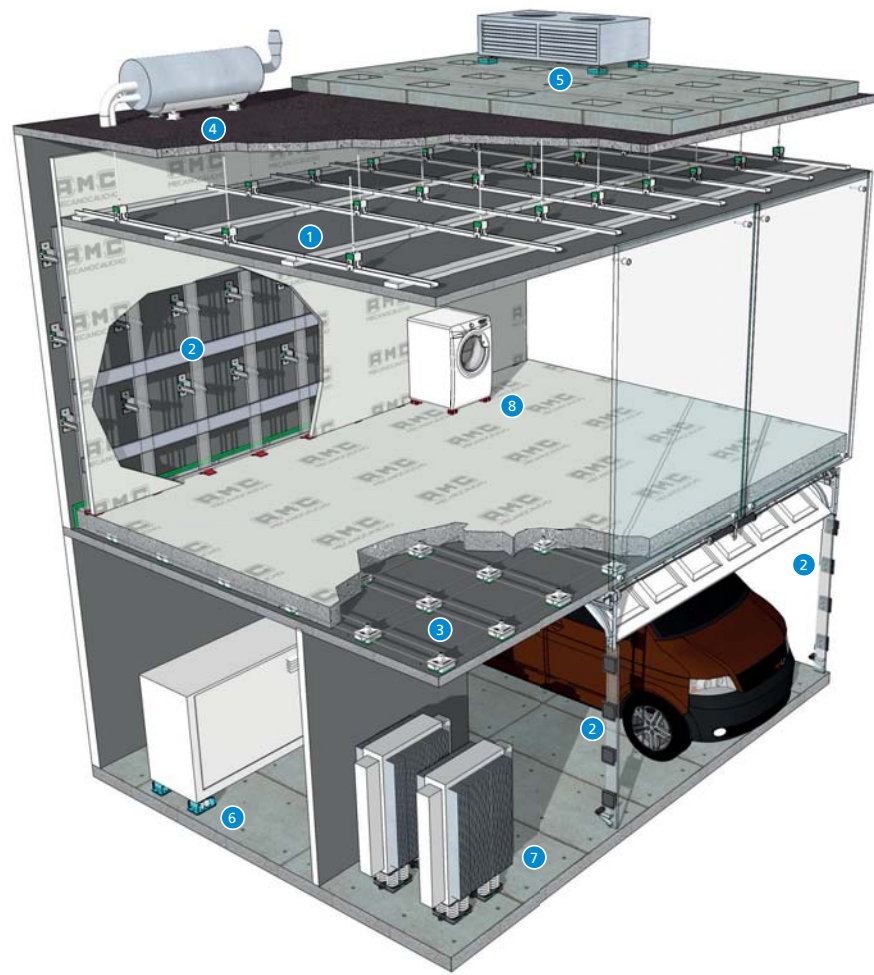
## NOISE ISOLATION FOR CONSTRUCTION

Maximum noise reduction for airborne and structure noise.



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 www.akustik.com

**AMC**  
**MECANOCAUCHO**  
 Akustik + sylomer®



## 150 MODELS OF ACOUSTIC HANGERS

The widest range on the market

### 1 NOISE ISOLATION - CEILING



### 2 NOISE ISOLATION - WALL



### 3 NOISE ISOLATION - FLOOR



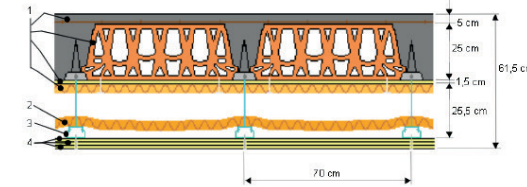
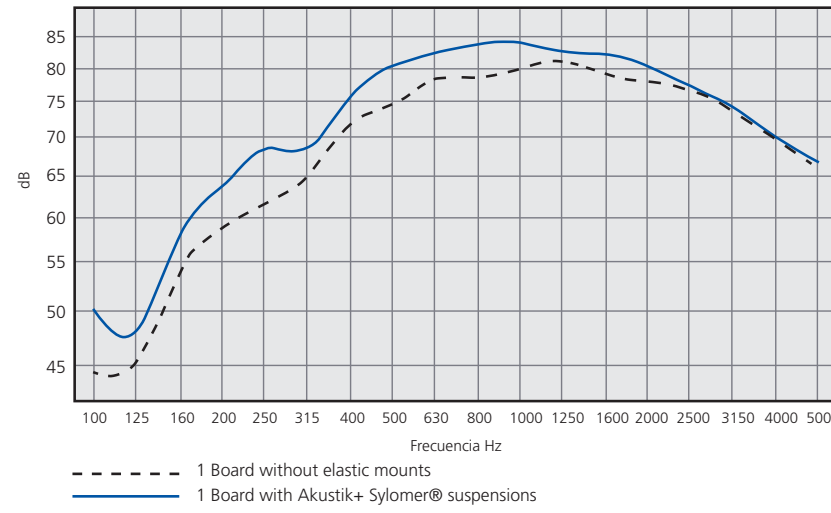
The graph and table show the airborne noise reduction results of a suspended ceiling structure with one, two and three gypsum plasterboards, with and without **AMC Akustik+Sylomer®**. The test was made in an external Lab (Labein). It is significant, that the noise reduction of a structure with Akustik+Sylomer® and a gypsum plasterboard is better than a structure of three gypsum plasterboards.

## FLOATING FLOOR MOUNTS

FZH+Sylomer® Range

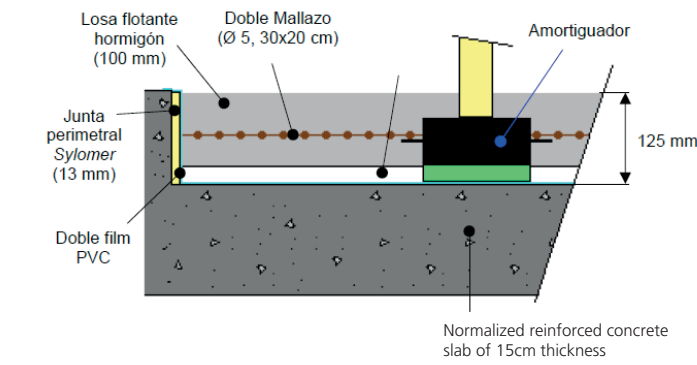


Airborne noise reduction Din ISO 140-3



- Ceramic pot slab ceiling with Rw 52 (0,-3) dB airborne isolation.
- Mineral wool layer (5cm, 20Kg/m³).
- Metallic Profile.
- Gypsum plasterboard.

| RW sound isolation index | Without suspensions (M6 rod) | With suspensions Akustik + sylomer® |
|--------------------------|------------------------------|-------------------------------------|
| 1 plasterboard           | 71 (-4; -10) dB              | 75 (-4; -10) dB                     |
| 2 plasterboard           | 73 (-3; -9) dB               | 75 (-3; -8) dB                      |
| 3 plasterboard           | 74 (-3; -8) dB               | 77 (-3; -8) dB                      |



Reduction of impact noise on normalized slab according to UNE en ISO 140-8:1998

Laboratory measurements

**Test specimen:** Floating reinforced concrete slab of 100mm thickness, elevated at 25mm with a system of antivibration mounts as described on the above picture.

**Employed supporting slab:** Reinforced concrete slab of 15cm thickness, tested in 26/06/09 (L<sub>n0</sub>)

**Volume of the receiving room:** 64.7m<sup>3</sup>

**Volume of the source room:** 53.6m<sup>3</sup>

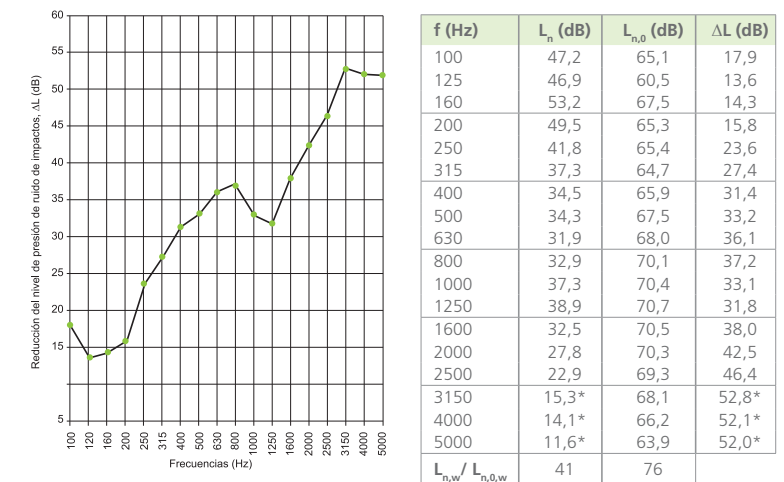
**Surface of the test specimen:** 13.86m<sup>2</sup> (3.3x4.2m)

**Estimated specific mass:** 250Kg/m<sup>2</sup>

**Chamber temperature:** 17.3 C°

**Chamber Hygrometry:** 77%

Weighted gain according to UNE-EN ISO 717-2:1997 ΔL<sub>w</sub> (C<sub>w</sub>): 34 (-11) dB  
These results rely on the realized tests under an artificial source under Laboratory conditions (engineering method)  
 \* L<sub>n</sub> ≤ indicated value and ΔL ≥ indicated value (measurement limits)



Isolation gain indexes:

|                                    |        |
|------------------------------------|--------|
| ΔR <sub>c</sub>                    | 13 dBA |
| ΔR <sub>w</sub>                    | 13 dB  |
| Δ(R <sub>w</sub> +C)               | 13 dBA |
| Δ(R <sub>w</sub> +C <sub>w</sub> ) | 13 dBA |

Evaluation based in laboratory measurements according to engineering method.  
 \* R<sub>w</sub> and ΔR ≥ indicated value (measurements limits).

Airborne insulation according to UNE EN ISO 140-16:2007

Laboratory measurements according to UNE ISO 140-3:1995

**Test specimen:** Floating reinforced concrete slab of 100mm thickness, elevated at 25mm with a system of antivibration mounts as described on the above picture.

**Employed supporting slab:** Reinforced concrete slab of 15cm thickness, tested in 26/06/09 (R<sub>without</sub>)

**Volume of the receiving room:** 64.7m<sup>3</sup>

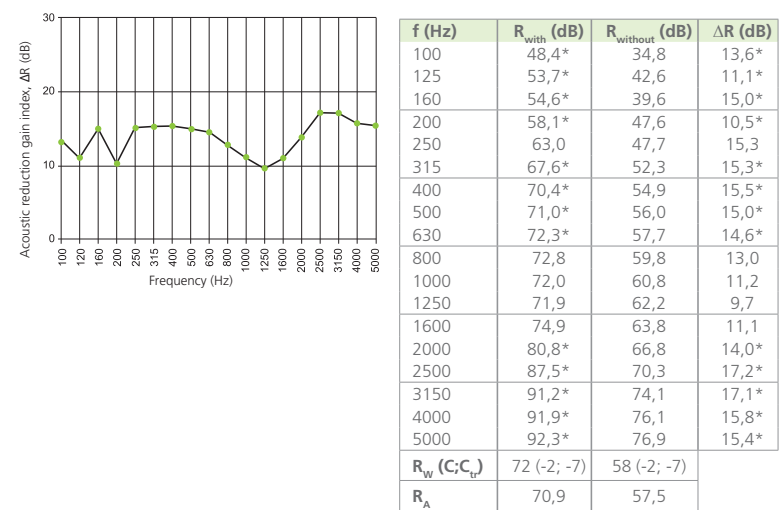
**Volume of the source room:** 53.6m<sup>3</sup>

**Surface of the test specimen:** 13.86m<sup>2</sup> (3.3x4.2m)

**Estimated specific mass:** 250Kg/m<sup>2</sup>

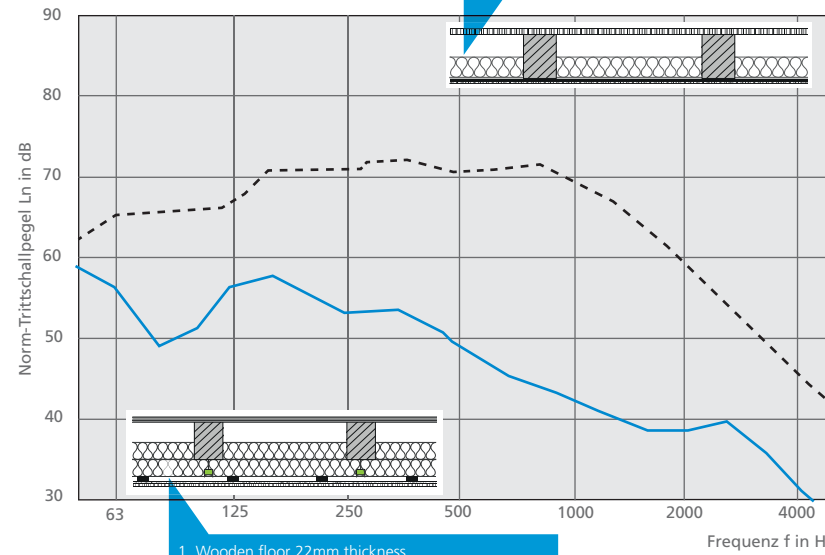
**Chamber temperature:** 17.3 C°

**Chamber Hygrometry:** 77%



The next graph and table show the structure borne noise reduction results of a wooden structure with and without **AMC Akustik+Sylomer®**. Although it is a complete wooden structure, it could achieve a 14 dB reduction in structure borne noise, passing the German regulations. This test was made in an external Lab (IFT Rosenheim, Germany).

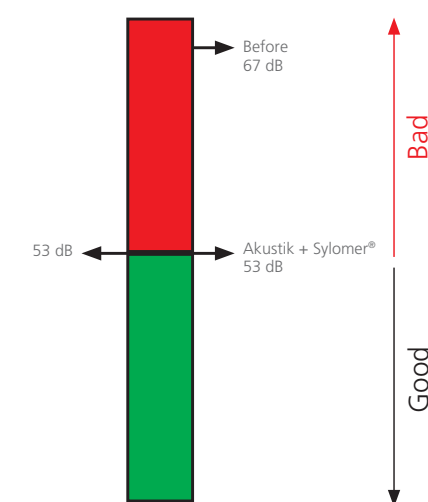
Structure borne noise DIN ISO140-6



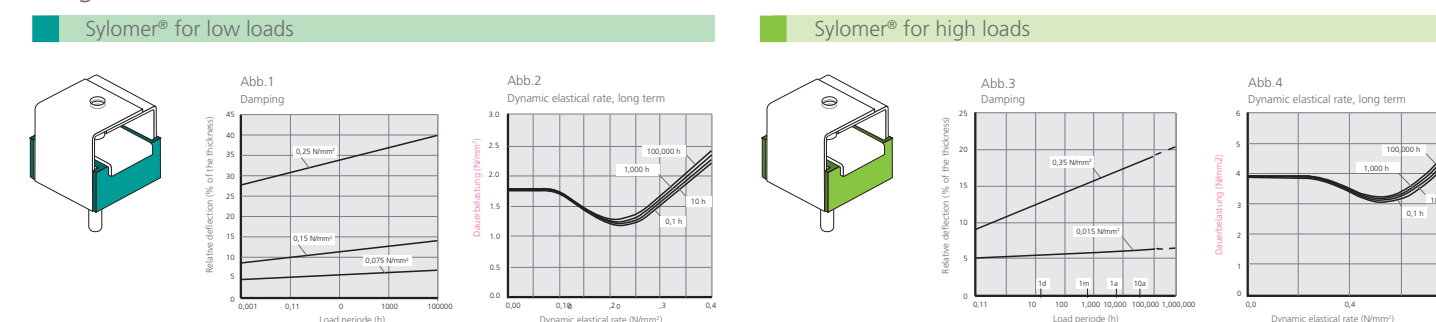
- Wooden floor 22mm thickness.
- Wooden joists 160/220.
- 10 cm Mineral wool (30kg/m³).
- 20mm thick Wood+Clay 15kg/m².

- Wooden floor 22mm thickness.
- Wooden joists 160/220.
- 20 cm mineral wool (30kg/m³).
- Akustik+Sylomer 30 acoustic hanger.
- 2 x 12,5mm Gypsum Plasterboards.

Reduction structure borne noise (Rw)



Long term behavior



Sylomer® for low loads

Sylomer® for high loads